

claims that it appeared necessary to present the Declaration so that these references could be removed under the provisions of 37 CFR § 1.131.

It is believed that applicant has now set forth a showing of good and sufficient reasons why the Declaration was not earlier presented. Accordingly, Applicant requests that the Declaration be entered and that the final rejection of these claims be withdrawn and that a timely Notice of Allowance of claims 1 – 5, 7 - 24, 26, 27, and 29 – 43 be issued.

Subsequent to the filing of the filing of the Response To The Examiner's Action Mailed April 13, 2005 After Final Rejection and after filing of Mr. Marsh's above-noted Declaration, recent discussions with Mr. Marsh, the undersigned attorney was informed that the apparatus described in the '458 patent was, within the meaning of 35 U.S.C. § 102(b), publicly used in the United States on or about April 30, 1999 – one day after the filing date of the '458 patent. Thus, the '458 patent should be considered to be prior art with respect to the subject matter instant application Serial No. 10/020,266 not disclosed in the '458 patent. However, as will be shown, the subject matter claimed in the instant application is disclosed in the '458 patent and thus this prior public use is not prior art with respect to the claims in the instant application.

Also, upon reviewing applicant's files in preparing this Supplemental Response, the undersigned attorney noted that Mr. Marsh's U. S. Patent Application No. 09/016,156 (now U. S. Patent 6,142,721) had a corresponding PCT application that was published on August 5, 1999, as an International Application No. WO 99/38707, hereinafter referred to as the " '707 PCT

application", copy enclosed. As noted on the front of the '707 PCT application, the '707 PCT application claims priority back to U.S. Patent Application No. 09/016,156, filed January 30, 1998, now U.S. Patent 6,142,721 (herein referred to as the "' 721 patent"). Because International Application No. WO 99/38707 was published some three (3) months after the April 29, 1999 filing date of the '458 patent, it is not prior art with respect to the '458 patent. Likewise, because the claims of the instant application claim priority back to the '458 patent and because the claims of the instant application (as will be shown) have antecedent support in the '458 patent, the '707 PCT Application is not prior art with respect to the claims of this application.

Still further, the undersigned attorney, upon checking the files, found that a PCT application was filed on April 18, 2000, corresponding to U.S. Patent Application No. 09/301,918, which is now the '458 patent. This PCT Application was published on November 9, 2000 as WO 00/66366 (referred to as the "' 366 PCT application"), copy enclosed. This instant application claims priority to U. S. Provisional Patent Application No. 60/254,106, filed December 8, 2000, and U. S. Provisional Patent Application No. 60/281,524 filed April 4, 2001, both of which were filed less than one (1) year after the November 9, 2000 publication date of the '366 PCT Application. Accordingly, the published PCT application no. WO 00/66366 is not prior art with respect to the instant application.

As noted on page 2 of the instant specification, this application (i.e., Serial No. 10/020,266) claims priority back to, and is in effect, a continuation in part of Mr. Marsh's '458 patent. At Column 10, lls. 37 – 39 of the '458 patent it is

stated that "my above-described U. S. Patent application no. 09/016,156 which has been herein incorporated by reference." Of course, U. S. Patent Application No. 09/016,156 is now the '721 patent. Because the '458 patent, filed April 29, 1999, incorporated by reference the disclosure of Application No. 09/016,156, the '458 patent contains a complete description of the subject matter disclosed in the '721 patent.

Mr. Marsh is the sole inventor of all of these U.S. and PCT applications.

Because both the prior public use of the apparatus disclosed in the '458 patent and the publication of the '707 PCT application both occurred after the April 29, 1999 filing date of the '458 patent, and because the instant application claims priority to the '458 patent, neither the public use of the apparatus of the '458 patent that occurred on April 30, 1999, nor the publication of the '707 PCT application (published August 5, 1999) is prior art with respect to the claimed subject matter of the instant application that is described in the '458 patent. As noted, the '458 patent incorporated by reference the subject matter of the '721 patent. As will be shown herein, the claims of the instant application are fully supported by the disclosure of the '458 patent and thus are not rendered unpatentable by the prior public use of the apparatus of the '458 patent, nor the publication of the '707 PCT application.

In the charts below, Applicant herein points out where the subject matter of the claims of the instant application Serial No. 10/020,266 find antecedent support in the '458 patent and in the '721 patent (which was incorporated by

reference in the '458 patent) such that the claims of the instant application are not rendered unpatentable by the published '707 PCT Application.

In the charts below, the terms of the remaining claims of the present application are shown in the left-hand columns of the various charts and the antecedent support in for these claim terms in the '721 patent is shown in the right-hand columns. At the risk of being repetitive, because the '458 patent incorporates the disclosure of the '721 patent by reference (see Col. 10, lls. 37 – 40 of the '458 patent).

**It will be understood that by pointing out where in the '458 and '721 patents antecedent basis for the terms of the claims of the instant application may be found, such statements of antecedent basis are not a disclaimer or disavowal of the scope of any of the terms of these claims. The claim terms should be construed to have their plain and ordinary meaning.**

Claim 1 of U. S. Patent Application No. 10/020,266,  
 As Amended In Amendment A, Mailed February 14, 2005

Terms of Claim 1 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
1. Apparatus for printing and binding a book,	Fig. 1 of the '721 patent depicts "an on demand book publishing [printing] system incorporating a book binding system" (see Col. 2, ll. 66, 67 of the '721 patent).
the latter comprising a book block having of a plurality of text pages with one edge of said book block constituting a spine,	As shown in Figs. 4 and 5 of the '721 patent, a book block 14 is shown to have a plurality of pages P and a spine S.
said book having a cover adhesively	As shown in Figs. 8 – 10 of the '721

secured to said spine,	patent, a cover C is adhesively secured to the spine S of the book.
said apparatus comprising a text page printer,	Figs. 1 and 2 of the '721 patent shows black and white page printers 24a, 24b, as described at Col. 6, ll. 10 et seq.
an accumulator receiving said text pages printed by said text page printer and forming said book block,	As shown in Fig. 5 of the '721 patent, an accumulator (e.g., bed 26a) receives the text pages printed by the text printers 24a to form book block 14.
a cover printer,	As shown in Figs. 1, 2 and 3 of the '721 patent, a cover printer 40 is provided.
a cover transfer conveyor for receiving said cover printed by said cover printer and for conveying said cover to a binding station,	As shown in Fig. 3 of the '721 patent, the cover printed by cover printer 40 is conveyed to a binding station 38. As disclosed at Col. 9, ll. 6 – 8 of the '721 patent, "the printed cover is conveyed to a cover conditioning station", which is shown to be part of binding station 38.
a carriage movable along a workpath from a first station at which said carriage is in position to receive said book block from said accumulator to an adhesive application station at which an adhesive is applied to the spine of said book block, and to said binding station,	As shown in Fig. 5 of the '721 patent, a "transport conveyor 28" includes "a carriage 30" (see Col. 6, ll. 37, 38) is provided which receives the book block 14 from the accumulator 26a. As disclosed at Col. 6, ll. 38 et seq., the carriage 30 is movable along a track 32 to binding station 38.
the later having a clamp for clamping said cover to said book block proximate said spine so as to effect the adhesive binding of said cover to said book block.	As shown in Figs. 8 – 10 of the '721 patent, a pair of pressing "rollers 60a, 60b are forcibly moved toward one another to compress cover C firmly against the proximate faces of the book block adjacent spine S and to compress the pages P of the book block tightly together proximate spine S." (Col. 20, ll. 63 – 68 of the '721 patent.

Thus, it is seen that the '721 patent, which is incorporated by reference in the '458 patent, provides a complete description of the subject matter of claim 1 of the instant application. Because the instant application claims priority to the '458 patent and because the '458 patent fully supports claim 1, neither the public

use of the apparatus of the '458 patent on or about April 30, 1999 after the filing date of the '458 patent, nor the published '707 PCT application (i.e., WO 99/38707), which was published after the filing date of the '458 patent application (i.e., after April 29, 1999), are prior art with respect to claim 1 of the instant application.

Claim 2 of U. S. Patent Application No. 10/020,266, As Amended  
 In Amendment A, Mailed February 14, 2005

Terms of Claim 2 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
2. Apparatus for printing and binding books, each book comprising	Fig. 1 of the '721 patent depicts "an on demand book publishing system incorporating a book binding system" (see Col. 2, ll. 66, 67 of the '721 patent).
a book block having of a plurality of text pages with one edge of said book block constituting a spine,	As shown in Figs. 4 and 5 of the '721 patent, a book block 14 is shown having a plurality of pages P and a spine S.
said book having a cover adhesively secured to said spine,	As shown in Figs. 8 – 10 of the '721 patent, a cover C is adhesively secured to the spine S of the book.
said apparatus comprising a first text page printer, a second text page printer, a cover printer,	As shown in Figs. 1 and 2 of the '721 patent, the apparatus has a first text page printer 24a, a second text page printer 24b, and a cover printer 40.
a cover conveyor for conveying said cover to a binding station,	As shown in Fig. 3 of the '721 patent, the cover printed by cover printer 40 is conveyed to a binding station 38. As disclosed at Col. 9, ll. 6 – 8, "the printed cover is conveyed to a cover conditioning station", which is shown to be part of binding station 38.
a carriage movable along a workpath from a first station at which said carriage receives text pages for a first book block for a first book from said first text page printer to an adhesive	As shown in Fig. 5, a "transport conveyor 28" includes "a carriage 30" (see Col. 6, ll. 37, 38) is provided which receives the book block 14 from the accumulator 26a. As disclosed at Col.

application station at which an adhesive is applied to the spine of said first book block and to said binding station, said cover printer printing a first cover for said first book,	6, ll. 38 et seq., the carriage 30 is movable along a track 32 to binding station 38. As part of the binding station 38, adhesive is applied.
said cover conveyor conveying said first cover to said binding station, the latter having a clamp for clamping said first cover to said first book block proximate said spine so as to effect the adhesive binding of said first cover to said first book block,	<p>As shown in Fig. 5, a "transport conveyor 28" includes "a carriage 30" (see Col. 6, ll. 37, 38) is provided that receives the book block 14 from the accumulator 26a. As disclosed at Col. 6, ll. 38 et seq., the carriage 30 is movable along a track 32 to binding station 38.</p> <p>As shown in Figs. 8 – 10 of the '721 patent, a pair of pressing "rollers 60a, 60b are forcibly moved toward one another to compress cover C firmly against the proximate faces of the book block adjacent spine S and to compress the pages P of the book block tightly together proximate spine S." (Col. 20, ll. 63 – 68 of the '721 patent.</p>
said second text page printer being located along said workpath at a location separate from said first text page printer, said second text page printer printing a second book block for a second book,	The second page printer 24b is shown in Figs. 1 and 2 to be located along the workpath (i.e., the path of carriage 30) at a location separate from the first text page printer 24a. Of course, the second printer 24b may be operated to print a second book block for a second book.
said cover printer printing a second cover for said second book,	Cover printer 40 may be operated to print a second cover for the second book.
said cover conveyor conveying said second cover to said binding station after binding of said first book,	The cover conveyor is operable to convey the second cover to the binding station in the same manner as the first cover.
after binding of said first book, said carriage being movable to a second position along said workpath for receiving said second book block printed by said second text page printer and thence being movable along said	See comments below.

workpath to said adhesive application station for having said adhesive applied to said spine of said second book block and thence to said binding station for being bound to said second cover.	
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It is noted that the '721 and the '458 patents only expressly disclose using the second page printer to print a part of the book block for the first book where the outputs from both B&W page printers are collated so as to form a book block for a first book. However, because the apparatus of the '721 patent is expressly stated to print any one of the books stored in a computer repository (see Col. 12, ll. 34 et seq.), the second text page printer must, inherently, print a second book block of a second book. Accordingly, it is submitted that the '721 patent discloses, either inherently or expressly, that the carriage is movable to a second position along the workpath for receiving the second book block printed by the second page printer and is movable to the binding station for having adhesive applied thereto.

It will also be noted that in claim 23 of the '721 patent that the adhesive is described to be disposed between the spine of the book block and the center portion of the cover. Thus, the '721 patent describes that the cover is adhesively bonded to the spine S of the book block 14.

Thus, the '458 patent, which incorporates the disclosure of the '721 patent, discloses the limitations of claim 2.



Claim 3 of U. S. Patent Application No. 10/020,266, As Amended  
 In Amendment A, Mailed February 14, 2005

Terms of Claim 3 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
3. Apparatus for printing books and for perfect binding said books, each said book to be printed and bound having a book block comprising a plurality of text pages and a cover corresponding to said book being printed, one edge of said book block constituting a spine, said apparatus comprising:	Fig. 1 of the '721 patent depicts "an on demand book publishing system incorporating a book binding system" (see Col. 2, ll. 66, 67 of the '721 patent). It will be noted that Fig. 1 depicts black and white page printers 24a, 24b, as described at Col. 6, ll. 10 et seq.  As shown in Figs. 4 and 5 of the '721 patent, a book block 14 is shown having a plurality of text pages P and a spine S.
a computer control system processing information relating to a first book to be printed and bound, said information including the size of the book and the number of pages in said book block, information corresponding to the text pages to be printed and to the cover to be printed, and information relating to excess margins of the bound book, if any, that must be trimmed to form a book of predetermined finished size;	As disclosed at Col. 8, ll. 31 et seq. of the '721 patent, a computer COMP commands provides information regarding the books to be printed including information corresponding to the number of pages and the book block to be printed.  As shown in Fig. 11, computer COMP "receives image data and controls on demand printing and binding" and thus has process information about the book including the images of the text and the dimensions of the book to be bound and trimmed.  As disclosed at Col. 12, ll. 17 et seq., the apparatus includes a "programmable trimmer" 72.
a text page printer;	Text page printers 24a, 24b are shown in Figs. 1 and 2 of the '721 patent.
a text page accumulator that receives said text pages from said text page	As shown in Fig. 5 of the '721 patent, a tray 26a receives the text pages printed

printer so as to constitute said book block for said book being printed;	by page printer 24a and deposits the book block 14 into carriage 30.
a cover printer;	A cover printer 40 is shown in Figs. 1 – 3 of the '721 patent.
said computer control system initiating printing of text pages by said text page printer for said first book and initiating printing of a cover for said first book by said cover printer,	As shown in Fig. 11, computer COMP "receives image data and controls on demand printing and binding."  As further shown in Fig. 11, the computer COMP sends "book page images to B&W printers", and sends "cover image to cover printer".
said accumulator accumulating said text pages for said first book so as to form said book block for said first book;	As shown in Fig. 5, tray 26a accumulates the text pages for a first book and forms the book block for this first book.
a carriage movable along a workpath, said workpath having a book block receiving station, an adhesive application station, a binding station, and a trimming station therealong;	A carriage 30 is movable along a track 32. The carriage receives the book block (as shown in Fig. 5), and conveys the book block to an adhesive application station (as shown in Fig. 6 of the '721 patent) where adhesive A is applied, and to a binding station 38 where the cover is bound to the book block, as shown in Figs. 8 – 10.
said carriage receiving said first book block;	As shown in Fig. 5, the carriage 30 receives a first book block 14.
a cover transfer conveyor that conveys said cover for said first book from said cover printer to said binding station;	As shown in Fig. 3 of the '721 patent, the cover printed by cover printer 40 is conveyed to a binding station 38. As disclosed at Col. 9, ll. 6 – 8, "the printed cover is conveyed to a cover conditioning station", which is shown to be part of binding station 38.
upon the completion of the printing of said first book block, said computer control system initiating transfer of said first book block from said accumulator to said carriage at said book block receiving station and initiating movement said carriage along said workpath to said adhesive application station for the application of adhesive so as to be disposed between the spine of said first book block and a	This is shown in Fig. 11 of the '721 patent, and is described at Col. 6, ll. 23 et seq., the trays or beds 26a, 26b receive the pages printed by printers 24a, 24b. These beds or trays are pivoted to a vertical position so as to collate the text pages so as to form a book block.  As shown in Fig. 11, the operation of the apparatus, including operation of

center portion of its respective cover upon binding of said book, said computer control system effecting the positioning said first book block at said binding station with respect to its respective said cover positioned at said binding;	the accumulators (i.e., trays or beds 26a, 26b), the carriage, the adhesive application station, and the binding station are under the control of computer control COMP.  Fig 11. specifically shows that "printed pages collated into book block 14", under the control of computer control COMP.
said binding station having a clamp engageable with said cover proximate said spine for clamping said cover around said spine of said book;	As shown in Figs. 8 – 10 of the '721 patent, a pair of pressing "rollers 60a, 60b are forcibly moved toward one another to compress cover C firmly against the proximate faces of the book block adjacent spine S and to compress the pages P of the book block tightly together proximate spine S." (Col. 20, ll. 63 – 68 of the '721 patent.) Of course, these rollers form a clamp for clamping the cover around the book.
said computer control system effecting clamping of said cover to said book block so that said adhesive adheres said center portion of said cover to said spine of said book block; and	As shown in Fig. 11, the computer COMP controls operation of binding station 38, which would include clamping rollers 60a, 60b.
after binding of said cover to said book block, said computer control system further initiating movement of said carriage along said workpath to said trimming station, said computer control system effecting operation of a selectively actuatable trimming blade for trimming said excess margins, if any, of said bound book along one or more edges thereof so as to form said book of a predetermined finished size.	As shown in Figs. 1 and 2, the tracks 29 (the workpath) extends from the binding station 38 to the trimming station 72 so that the carriage 30 may convey the bound book to the trimming station.  As shown in Fig. 11, computer COMP controls operation of the carriage 30 to move the bound book to a trimming station 72 to trim the book to a predetermined finished size.

Thus, the '721 patent, which is incorporated by reference in the '458 patent, discloses the subject matter of claim 3 of the instant application.

Because the instant application claims priority to the '458 patent, because the

public use of the apparatus of the '458 patent occurred after the filing date of the '458 patent, and because the PCT application (WO 99/38707) was published after the filing date of U. S. Patent Application No. 09/301,918 (i.e., after April 29, 1999), such public use and/or the published PCT application are not prior art with respect to claim 3 of the instant application.

Claim 4 of U. S. Patent Application No. 10/020,266, As Amended  
 In Amendment A, Mailed February 14, 2005

Terms of Claim 4 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
4. Apparatus for printing a plurality of books one after the other, for perfect binding each of said books, and for trimming each of said books to a predetermined finished size, each said book to be printed and bound having a book block comprising a plurality of text pages and a cover corresponding to said book being printed, one edge of book block constituting said spine of said book block, said apparatus comprising:	Such apparatus is disclosed in the '721 patent, see Figs. 1, 2 and 11. As noted in regard to claims 1 – 3, the '721 patent discloses a similar book block and cover that is trimmed to a predetermined size. The book described in the '721 patent has a similar book block and a cover wrapped around the spine S of the book.
a computer control system processing information relating to each of the books to be printed, bound, and trimmed, said information including the finished size of a first book, the thickness of said first book, information corresponding to the text pages to be printed and to the cover to be printed for said first book, and information regarding excess margins, if any, that must be trimmed from said first book as initially printed and bound so as to be of a predetermined finished size, said computer control system processing information relating to a second book	The '721 patent has a computer control system COMP, which as shown in Fig. 11 of the '721 patent, has information relating to the books to be printed, bound and trimmed, including the finished size of the books, the thickness of the books and the cover. As disclosed at Col. 12, ll. 29 et seq. of the '721 patent, this computer control system controls operation of the on demand book printing system 12.  As disclosed at Col. 8, ll. 31 et seq. of the '721 patent, a computer COMP commands provides information

including the finished size of said second book, the thickness of said second book, information corresponding to the text pages to be printed and to the second cover to be printed for said second book, and information regarding excess margins, if any, that must be trimmed from said second book as initially printed and bound so as to be of a predetermined finished size;	<p>regarding the books to be printed including information corresponding to the number of pages and the book block to be printed.</p> <p>As shown in Fig. 11, computer COMP "receives image data and controls on demand printing and binding" and thus has process information about the book including the images of the text and the dimensions of the book to be bound and trimmed.</p> <p>As disclosed at Col. 12, ll. 17 et seq., the apparatus includes a "programmable trimmer" 72.</p>
<p>a first text page printer which prints said text pages for said first book;</p> <p>a cover printer;</p> <p>a second text page printer which prints said text pages for said second book;</p>	First and second page text printers 24a, 24b are shown in Figs. 1 and 2, along with a cover printer 40.
<p>a first tray receiving said text pages printed by said first text page printer, said text pages being accumulated on said first tray for constituting a first book block;</p> <p>a second tray receiving said text pages printed by said second text page printer, said text pages being accumulated on said second tray for constituting a second book block;</p>	Each of the text page printers is equipped with a tray 26a, 26b (see Fig. 5) on which are accumulated the text pages for forming book blocks.
a carriage movable along a workpath, the latter having a first station at which said carriage receives said first book block,	As shown in Fig. 5, a carriage 30 is movable along a track 32 (or workpath), and the carriage 30 receives a book block.
an adhesive application station at which an adhesive is applied so as to be disposed between said spine of a book block carried by said carriage and its respective cover,	As shown in Fig. 6 and as described in claim 21 of the '721 patent, adhesive A is applied so as to be disposed between the spine S of the book block and the cover C.
a binding station at which said book	As shown in Figs. 1 and 2, the carriage

<p>block carried by said carriage is bound to its respective cover positioned at said binding station, the latter having a clamp for clamping a cover to a book block proximate the spine of the book block,</p>	<p>30 transports the book block to binding station 38 where the book block is bound to its cover C, which is positioned at the binding station (see Fig. 3).</p> <p>As shown in Fig. 5, cover C is positioned at the binding station 42.</p> <p>The binding station 38 is provided with pressing rollers 60a, 60b, see Figs. 8 – 10, which clamp the cover to the book block proximate the spine S of the book block.</p>
<p>a trimming station at which excess margins, if any, of the book bound at said binding station are trimmed from along one or more edges of said book,</p>	<p>As shown in Figs. 1, 2 and 11, a trimming station 72 is provided for trimming excess margins of the bound book</p>
<p>and a second station at which said carriage receives said second book block;</p>	<p>The carriage receives the book block for a second book from the second page printer 24b, this is located separate from printer 24a.</p>
<p>a cover conveyor that receives said cover printed by said cover printer and that conveys said cover to said binding station;</p>	<p>As shown in Fig. 3, the cover C printed by cover printer 40 is conveyed from the cover printer to the binding station 38.</p>
<p>said computer control system effecting printing of said text pages for said first book block by said first text page printer and initiating printing of a first cover for said first book by said cover printer;</p> <p>said computer control system effecting printing of said text pages for said second book block by said second text page printer;</p> <p>upon the completion of the printing of said text pages for said first book block by said first text page printer, said computer control system effecting the transfer of said first book block from said first tray to said carriage;</p>	<p>As shown in Fig. 11 of the '721 patent, the computer control system COMP therein shown performs the stated functions of claim 4. The operation of computer COMP is described at Col. 12, ll. 29 et seq. of the '721 patent. Thus, the computer COMP has the elements of claim 4.</p>

said computer control system effecting conveying of said first cover from said cover printer to said binding station with a center portion of said first cover positioned at said binding station so as to be in register with the spine of said first book block when the latter is positioned at said binding station;

said computer control system effecting the printing of a second cover for said second book;

said computer control system further initiating movement of said carriage along said workpath to said adhesive application station where a suitable adhesive is applied so as to be between said spine of said first book block and said first cover upon binding said first book;

said computer control system effecting stopping said carriage at said binding station such that with said spine of said first book block is substantially in register with respect to said first cover, said first cover is clamped to first book block proximate the spine thereby to form a first bound book;

said computer control system further effecting the transport of said bound first book to said trimming station, said bound first book having said excess margins known to said computer control system, the latter effecting operation of said trimming station for trimming said excess margins along one or more edges of said first bound book thereby to form said first book of said predetermined finished size;

upon the transport of said first bound book to said trimming station, said

computer control system effecting movement of said carriage to a second position;

said computer control system effecting the transfer of said second book block from said second tray to said carriage;

said computer control system effecting the transfer of said second cover from said cover printer to said binding station;

aid computer control system effecting movement of said carriage along said workpath from said second position to said adhesive application station where a suitable adhesive is applied so as to be between said spine of said second book block and said second cover upon binding of said second book;

said computer control system effecting stopping said carriage at said binding station such that said spine of said second book block is in register with respect to said second cover and effecting clamping of said second cover to said second book block proximate the spine thereof thereby to form a second bound book; and

said computer control system further effecting the transport of said bound second book to said trimming station, said second bound book having said excess margins known to said computer control system, the latter effecting operation of said trimming station for trimming said excess margins along one or more edges of said second bound book thereby to form a second book of said finished predetermined size.



In view of the above, the requirements of claim 4 of the instant application have antecedent support in the '458 patent (which incorporated the disclosure of the '721 patent by reference) such that neither the above-noted public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 4.

Claim 5 of U. S. Patent Application No. 10/020,266, As Amended  
 In Amendment A, Mailed February 14, 2005

Terms of Claim 5 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
5. A book printing and binding apparatus comprising:	See Claim Chart For Claim 1 for description of corresponding structure or feature in the '721 patent.
said book having a plurality of text pages constituting a book block and a cover;	See Fig. 4 which shows the book block 14 having a plurality of pages P, and see Figs. 8 – 10 which shows the book block 14 being adhesively bound to its cover C to form a book.
a book printing station that prints said text pages;	As shown in Figs. 1 and 2, the '721 patent describes printers 24a, 24b that prints the text pages.
a carriage that receives said book block, said carriage holding said book block in a known position;	As shown in Figs. 1, 2 and 5, the apparatus of the '721 patent has a carriage 30 that receives the book block 14 and holds the book block in a known position within the carriage.
an adhesive station operatively associated with the carriage to apply an adhesive to one edge of the book block, said one edge constituting a spine;	As shown in Figs. 6 and 8 – 10, and as described in claim 21 of the '721 patent, adhesive is applied so as to be disposed between the spine of the book block and the center of the cover.
a cover printing station that prints a cover for said book being printed;	As shown in Figs. 1 – 3, the apparatus described in the '721 patent includes a cover printer 40 that prints a cover for the book.
a binding station receiving said cover; said binding station cooperating with	The binding station 38 disclosed in the '721 patent receives the cover from the conditioning station 41.

<p>said book block carried by said carriage such that with said carriage stopped at said binding station such that said book block is substantially centered with respect to said cover;</p> <p>said binding station further including a clamp engageable with said cover and with said book block proximate said spine for clamping said cover to said book block such that said adhesive binds said cover to said book block along said spine thereby to form a bound book; and</p>	<p>The binding station cooperates with the book block carried by the carriage such that the book block is substantially centered with respect to the cover. This is shown in Figs. 8 – 10 of the '721 patent.</p> <p>The compression rollers 60a, 60b shown in Figs. 8 – 10 of the '721 patent clamp the cover and the book block proximate the spine S so as to form a bound book.</p>
<p>a trimming station operatively associated with said carriage receiving said bound book and trimming said bound book to predetermined finished dimensions.</p>	<p>As shown in Figs. 1, 2 and 11 of the '721 patent, a trimming station 72 is provided that is operatively associated with the carriage so that the bound book may be trimmed to predetermined dimensions.</p>

In view of the above, the requirements of claim 5 of the instant application have antecedent support in the '458 patent (which incorporated the disclosure of the '721 patent by reference) such that neither the above-noted public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 5.

**Note, Claim 6 has been canceled in the Amendment C filed herewith.**

Claim 7 of U. S. Patent Application No. 10/020,266, As  
 Amended In Amendment A, Mailed February 14, 2005

<p>Terms of Claim 7 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005</p>	<p>Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998</p>
<p>7. A book printing and binding apparatus as set forth in Claim 5 further comprising:</p>	<p>See Claim Chart For Claim 5 for description of corresponding structure or feature in the '721 patent.</p>
<p>a conveyor extending from said book printing station to said adhesive</p>	<p>As shown in Figs. 1 - 3 of the '721 patent, the apparatus has a transport</p>

application station and to said binding station, said carriage being operatively connected with the conveyor to be conveyed by the conveyor from said book printing station to said adhesive station and to said binding station.	conveyor 28 movable between the various stations. This conveyor 28 has a carriage 30 movable along a track 32, which forms a workpath extending between the various stations.
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In view of the above, the requirements of claim 7 of the instant application have antecedent support in the '458 patent (which incorporated the disclosure of the '721 patent by reference) such that neither the above-noted public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 7.

Claim 8 of U. S. Patent Application No. 10/020,266, As Amended  
 In Amendment A, Mailed February 14, 2005

Terms of Claim 8 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
8. A book printing and binding apparatus as set forth in Claim 5 wherein	See Claim Chart For Claim 1 for description of corresponding structure or feature in the '721 patent.
said clamp at said binding station is movable between first and second positions wherein the first position the clamp is clear of said cover, and wherein the second position the clamp is in clamping engagement with said cover proximate said spine so as to forcibly clamp said cover to said book block.	As shown in Figs. 8 – 10 of the '721 patent, a pair of pressing "rollers 60a, 60b are forcibly moved toward one another to compress cover C firmly against the proximate faces of the book block adjacent spine S and to compress the pages P of the book block tightly together proximate spine S." (Col. 20, ll. 63 – 68 of the '721 patent.) As such the rollers are movable between an open position in which they are clear of the book and a closed, compressing position in which they clamp the cover to the book block proximate the spine.

In view of the above, the requirements of claim 8 of the instant application have antecedent support in the '458 patent (which incorporated the disclosure of

the '721 patent by reference) such that neither the above-noted public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 8.

Claim 9 of U. S. Patent Application No. 10/020,266, As Amended  
 In Amendment A, Mailed February 14, 2005

Terms of Claim 9 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
9. A book printing and binding apparatus as set forth in Claim 5 wherein	See Claim Chart For Claim 5 for description of corresponding structure or feature in the '721 patent.
said cover printing station includes a color cover printer that prints a color cover for the book, said cover printing station further including a cover transfer mechanism extending between said cover printer and the binding station, the cover transfer mechanism being operable to receive the printed cover from the cover printer and to transfer the cover to the binding station.	As described at Col. 7, ll. 17, "Book publishing system 10 may also include a cover printer 40 which may, for example, be a suitable <u>color</u> printer for printing a cover blank CB ..."  As shown in Fig. 3 of the '721 patent, the cover printed by cover printer 40 is conveyed to a binding station 38. As disclosed at Col. 9, ll. 6 – 8, "the printed cover is conveyed to a cover conditioning station", which is shown to be part of binding station 38.

In view of the above, the requirements of claim 9 of the instant application have antecedent support in the '458 patent (which incorporated the disclosure of the '721 patent by reference) such that neither the above-noted public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 9.

Claim 10 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 10 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent
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	6,142,721, Filed January 30, 1998
10. A book printing and binding apparatus as set forth in Claim 9 wherein	See Claim Chart For Claims 5 and 9 for a description of corresponding structure or feature in the '721 patent.
said cover transfer mechanism positions said cover at said binding station with a central portion of said cover in register with the spine of a book block carried by said carriage to be bound to said cover.	As shown in Fig. 3 of the '721 patent, the cover printed by cover printer 40 is conveyed to a binding station 38. As disclosed at Col. 9, ll. 6 – 8, "the printed cover is conveyed to a cover conditioning station", which is shown to be part of binding station 38.  As described at Col. 10, lls. 40 et seq. of the '721 patent, "the conditioned cover C is along with the book block 14 are conveyed to a binding station 38 in accordance with the present invention."

In view of the above, the requirements of claim 10 of the instant application have antecedent support in the '458 patent (which incorporates the disclosure of the '721 patent by reference) such that neither the prior public use of the apparatus disclosed in the '458 patent first publicly used April 30, 1999, nor the published PCT application WO/99/38707 (published August 5, 1999) is not prior art with respect to claim 10.

Claim 11 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 11 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
11. A book printing and binding apparatus as set forth in Claim 5 wherein	See Claim Chart For Claim 5 for description of corresponding structure or feature in the '721 patent.
said trimming station has a nest that receives and holds said bound book, said book being delivered to said nest by said carriage such that the bound	The trimming station 72 is only broadly described in the '721 patent.  However, the '458 patent fully

book is in a known position, said trimming station having a shear blade operable to shear said bound book, the nest and said shear blade being movable relative to one another enabling said shear blade to shear predetermined amounts of the book block and cover along one or more edges thereof so as to form a finished book of predetermined dimensions.	describes the "nest" and its operation. This is shown in Figs. 2, 4 – 7 of the '458 patent, and is described beginning at Col. 12, ll. 51 et seq. of the '458 patent.
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Thus, the requirements of claim 11 of the instant application have antecedent support in the '458 patent (which incorporates the disclosure of the '721 patent by reference) such that neither the prior public use of the apparatus disclosed in the '458 patent first publicly used April 30, 1999, nor the published PCT application WO/99/38707 (published August 5, 1999) are prior art with respect to claim 11.

Claim 12 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 12 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
12. A book printing and binding apparatus as set forth in Claim 11 wherein	See Claim Chart For Claim 11 for description of corresponding structure or feature in the '721 patent.
said nest is rotatable relative to said shear blade to present more than one edge of both the book block and cover to said shear blade for shearing.	The '458 patent fully describes the "nest" and its operation. This is shown in Figs. 2, 4 – 7, and is described beginning at Col. 12, ll. 51 et seq. of the '458 patent.

Because the requirements of Claim 12 have full antecedent support in the specification of the '458 application which was filed before the publication of the

PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 12.

Claim 13 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 13 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
13. A book printing and binding apparatus as set forth in Claim 5 wherein	See Claim Chart For Claim 5 for description of corresponding structure or feature in the '721 patent.
said carriage has a bottom opening such that a book block carried vertically by said carriage has its spine exposed from below such that as the carriage carries the book block spine over the adhesive station adhesive may be applied to said spine.	As shown in Figs. 8 – 19 of the '721 patent, the book block 14 carried by the carriage has is spine oriented downwardly so as to mate with the adhesive A, and the spine is exposed from below.  The feature that the spine is exposed from below is also clearly shown in Fig. 5 of the '458 patent.

Because the requirements of Claim 13 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 13.

Claim 14 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 14 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
14. A book printing and binding apparatus as set forth in Claim 13 wherein	See Claim Chart For Claim 13 for description of corresponding structure or feature in the '721 patent.

with said spine exposed through said bottom opening in said carriage, with the book block positioned at said binding station, said spine is in position to be adhesively bound to said center portion of said cover positioned at said binding station.	<p>As shown in Figs. 8 – 19 of the '721 patent, the book block 14 carried by the carriage has its spine oriented downwardly so as to mate with the adhesive A. In order to permit the spine to be so disposed, it must be exposed through the bottom of the carriage.</p> <p>This feature is also clearly shown in Fig. 5 of the '458 patent.</p>
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Because the requirements of Claim 14 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 14.

Claim 15 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 15 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
15. A book printing and binding apparatus comprising:	See Claim Chart For Claim 1 for description of corresponding structure or feature in the '721 patent.
a first text page printing station that prints a plurality of text pages to form a book block for a first book;	See text page printers 24a, 24b of the '721 patent.
a carriage holding said book block for said first book;	See carriage 28 shown in Fig. 5 of the '721 patent.
an adhesive station operatively associated with the carriage to apply an adhesive to one edge of the book block for said first book, said one edge of said book block constituting a spine;	See Fig. 6 of the '721 patent.
a cover printing station that prints a	See cover printer 40 illustrated in Figs.



cover for said first book;	1 and 2 and in Fig. 11 of the '721 patent.
a binding station receiving said cover for said first book, said binding station cooperating with said book block carried by said carriage so as to bind said book block and said cover so as to form said first book;	See binding station 42 in the '721 patent.
a second text page printing station that prints a plurality of text pages for a second book block for a second book;	<p>The '721 patent discloses a second printer, but it is not expressly stated that the second printer prints the book block of a second book block for a second book.</p> <p>However, because the apparatus of the '721 patent is not limited to printing only a single book, it is inherently disclosed that the apparatus of the '721 patent is operable to print a second book block for a second book.</p>
said carriage being operatively associated with to said second text page printing station to receive said second book, said carriage holding said second book block with one edge of this last-said book block constituting its spine;	<p>The carriage of the '721 receives the text pages from the second text printer. As described at Col. 6, ll. 48 et seq., "the pages are transported from printers 24a, 24b to a collation station 34 and from collation station 34 to a binding station 38 such that the pages P and such the resulting book block 14 are in a known position with respect to conveyor track 34."</p> <p>As shown in Fig. 8 – 10 of the '721 patent and as shown in Figs. 3 and 5 of the '458 patent, the carriage holds the book blocks with one edge (its bottom edge) constituting its spine.</p>
said carriage conveying said second book block to said adhesive station for having adhesive applied to its spine, and thence to said binding station;	See Figs. 1 – 3 of the '721 patent.
said cover printing station printing a second cover for said second book;	The cover printer of the '721 and of the '458 patents can be operated to print a second cover for a second book.
said binding station receiving said second cover for said second book;	The binding station of the '721 patent and of the '458 patent receives the

and	second cover for a second book.
said carriage positioning said second book block at said binding station with its spine in position to be bound to said second cover.	The carriage of the '721 patent and of the '458 patent positions the second book block in a position to be bound with the second cover.

All of the elements of claim 15, with the possible exception of "a second text page printing station that prints a plurality of text pages for a second book block for a second book", are described in the '458 patent. However, both the first and second printers are described as being able to print any of the books stored in a computer repository (see Col. 12, ll. 34 et seq. of the '721 patent). Clearly, the apparatus of the '721 patent is operable to print more than one book. Thus, the second page printer of the '721 patent is operable to print a second book block for a second book. Accordingly, the '721 patent, which is incorporated by reference in the '458 patent, does disclose all of the limitations of claim 15.

As noted above, the feature "a second text page printing station that prints a plurality of text pages for a second book block for a second book" of claim 15, represents a marked improvement over the apparatus described in the '721 patent because it dramatically increases the throughput of books through the apparatus by allowing the books blocks to be printed simultaneously such that while the book block for a second book is being printed, the book block and the cover of the first books may undergo the binding and trimming operations. This feature is not suggested by the prior art. Accordingly, claim 15 is properly patentable over the disclosure of the published PCT application, and over the prior public use of the apparatus described in the '458 patent.

Claim 16 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 16 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
16. A book printing and binding apparatus as set forth in Claim 15 wherein	See Claim Chart For Claim 15 for description of corresponding structure or feature in the '721 patent.
said second text page printing station is separate from the first book text page printing station.	As shown in Figs. 1 and 2 of the '721 patent, the two text page printers 24a, 24b are separate from one another.

Because the requirements of Claim 16 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 16.

Claim 17 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 17 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
17. A book printing and binding apparatus as set forth in Claim 16 wherein	See Claim Chart For Claim 15 and 16 for description of corresponding structure or feature in the '721 patent.
said carriage is movable along a workpath along which is included said adhesive application station and said binding station,	As shown in Figs. 1 and 2 of the '721 patent, the carriage 30 is movable along a track 28 (a workpath) along which is located an adhesive application station and a binding station.
wherein said first text page printing station and said second book printing station are positioned on opposite ends of said workpath with respect to said	As shown in Figs. 1 and 2 of the '721 patent, the two text page printers 24a, 24b are separate from one another, but they are not located on opposite ends

adhesive station and said binding station.	of the work path with respect to the adhesive station 42.
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Because the requirements of Claim 17 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 17.

Claim 18 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 18 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
18. A book printing and binding apparatus, said book having a plurality of text pages constituting a book block and a cover, said apparatus comprising:	See Claim Charts For Claims 1, 2 and 15 for description of corresponding structure or feature in the '721 patent.
a printing station that prints said text pages;	The '721 patent discloses two text page printing stations 24a, 24b that print the text pages.
a carriage that receives said book block;	The '721 patent has a carriage 30 that receives the book block (see Fig. 5 of the '721 patent).
an adhesive station operatively associated with the carriage to apply an adhesive to one edge of the book block received in said carriage, said one edge of said book block constituting a spine;	The '721 patent has an adhesive station 42 at which adhesive is applied so between the cover and the spine of the book, as disclosed in claim 21 of the '721 patent.
a cover printing station that prints a cover for said book being printed ;	As shown in Figs. 1 and 2 of the '721 patent, a cover printing station is provided that prints a cover for the book to be bound.
a binding station receiving said cover;	As shown in Figs. 1 and 2 of the '721 patent, a binding station 38 is provided.
said binding station cooperating with said carriage such that with said	The binding station, as shown in Figs. 1 and 2 of the '458 patent (which

carriage stopped at said binding station such that said book block is in register with said cover;	incorporated the disclosure of the '721 patent by reference) such that when the carriage is stopped at the binding station (see Figs. 3 and 8 – 10) that the spine of the book block is in register with the center portion of the cover.
said binding station further including a clamp engageable with said cover proximate said spine for clamping said cover to said book block such that said adhesive binds said cover to said book block along said spine thereby to form a bound book; and	As shown in Figs. 8 – 10 of the '721 patent, compressible rolls 60a, 60b press the cover onto the book block proximate the spine of the book block.
a transfer mechanism between said printing station and the carriage to receive said text pages printed by said printing station and to form said first book block, said transfer mechanism being operable to transfer said book block to said carriage.	See element 26a of Fig. 5 of the '721 patent.

Because the requirements of Claim 18 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 18.

Claim 19 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 19 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
19. A book printing and binding apparatus as set forth in Claim 18 wherein	See Claim Chart For Claim 18 for description of corresponding structure or feature in the '721 patent.
said transfer mechanism has a tray that receives said text pages from said printing station so as to form said first	See element 26a of Fig. 5 of the '721 patent. Operation of the tray 26a is described at Col. 6, ll. 24 et seq. of the

book block.	'721 patent.
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Because the requirements of Claim 19 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 19.

Claim 20 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 20 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
20. A book printing and binding apparatus as set forth in Claim 19 wherein	See Claim Chart For Claim 19 for description of corresponding structure or feature in the '721 patent.
with said carriage in position to receive said book block, said tray being movable from a receiving position in which is receives said pages from said printing station to a delivery position in which said book block is delivered to said carriage.	See element 26a of Fig. 5 of the '721 patent. Operation of the tray 26a is described at Col. 6, ll. 24 et seq. of the '721 patent.

Because the requirements of Claim 20 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 20.

Claim 21 U. S. Patent Application No. 10/020,266, As Amended  
 In Amendment A, Mailed February 14, 2005

Terms of Claim 21 U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
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21. A book printing and binding apparatus as set forth in Claim 20	See Claim Chart For Claim 20 for description of corresponding structure or feature in the '721 patent.
further having a vibrating mechanism mounted on said the tray for vibrating the tray and said text pages received thereon so as to arrange said pages into a book block.	See element 26a of Fig. 5 of the '721 patent and optional element J, as shown in Fig. 11 of the '721 patent.

Because the requirements of Claim 21 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 21.

Claim 22 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 22 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
22. A book printing and binding apparatus as set forth in Claim 20 further comprising	See Claim Chart For Claim 1 for description of corresponding structure or feature in the '721 patent.
a clamp mechanism on the tray movable between open and a closed position where in the closed position the clamp holds the book block on the tray and where in the open position the clamp releases the book block to be deposited in the carriage.	The element 26a of Fig. 5 of the '721 patent does not include the provision of a clamp, as required by claim 22.

While the additional requirement of a clamp for the tray is not disclosed in the '721 patent, it is submitted that this dependent claim is allowable along with its base claims for the reasons set out above.

Claim 23 U. S. Patent Application No. 10/020,266, As Amended  
 In Amendment A, Mailed February 14, 2005

Terms of Claim 23 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
23. A book printing and binding apparatus as set forth in Claim 21 wherein	See Claim Chart For Claim 1 for description of corresponding structure or feature in the '721 patent.
said vibrating mechanism is operatively associated with said tray such that the pages comprising the book block are vibrated so as to align the pages of the book block.	See element 26a of Fig. 5 of the '721 patent.

As noted, the vibrating mechanism on the tray receiving the text pages from the text printer is not disclosed in the '721 patent. However, because claim 23 depends from claim 21 which in turn depends from allowable based claims, claim 23 should also be allowed.

Claim 24 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 24 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
24. A book printing and binding apparatus as set forth in Claim 23 wherein	See Claim Chart For Claim 23 for description of corresponding structure or feature in the '721 patent.
said tray is supported in an angled orientation such that the vibrating mechanism exerts both horizontal and vertical vibrating forces on the book block held so as to aid in forming said book block.	See element 26a of Fig. 5 of the '721 patent.



As noted, the vibrating mechanism on the tray receiving the text pages from the text printer is not disclosed in the '721 patent. However, because claim 23 depends from claim 21 which in turn depends from allowable based claims, claim 23 should also be allowed.

**Claim 25 was previously canceled.**

Claim 26 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 26 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
26. Apparatus for the on demand printing and binding a perfect bound book, the latter comprising a book block having of a plurality of text pages with one edge of said book block constituting a spine, said book having a cover adhesively secured to said spine, said apparatus comprising:	The basic apparatus is fully disclosed in the '721 patent, see Figs. 1, 2, and 11.
a first text page printer for printing said text pages constituting a first book block of a first book to be printed on demand;	See text page printer 24a.
a cover printer for printing a cover corresponding to said first book;	See cover printer 40.
an accumulator including a tray for receiving said text pages printed by said first text page printer and for accumulating said text pages so as to form said first book block;	See bed or tray 26a, as shown in Fig. 5.
a cover transfer conveyor for receiving a cover printed by said cover printer for said first book and for conveying said cover to a binding station;	See Fig. 3 where the cover C is conveyed from the cover printer 40 to the binding station.
a carriage movable along a workpath from a first station at which said carriage is in position to receive said	See Figs. 1, 2, 5 and 11. Carriage 30 is movable along a track 32 (i.e., a workpath) and it receives book block

first book block from said accumulator to an adhesive application station at which adhesive is applied so as to be disposed between to the spine of said first book block and its respective said cover upon binding of said respective cover to said first book block;	14 from bed (tray) 26a upon which the text pages ejected from page printer 24a are ejected. The carriage 30 moves along track 32 such that adhesive is applied so as to be disposed between the spine S and the inner surface of the cover, as shown in Figs. 8 – 10.
said binding station having a clamp for clamping said cover to said book block proximate said spine so as to effect the adhesive binding of said cover to said book block;	As shown in Figs. 3 and 8 – 10, the binding station 38 has clamping rollers 60a, 60b for clamping the cover to the book block proximate the spine S. Of course the effects the adhesive binding of the cover to the book block along the spine S.
a second text page printer for printing the text pages of a second book to be printed and bound on demand, said second text page printer being located along said workpath at a location separate from said first text page printer;	The '721 patent does disclose a second printer 24b for printing a portion of the book block 14 for a first book. Since the apparatus is operable to print other books other books stored in the computer repository, the second text page printer can to print a second book block.
said apparatus further having a second accumulator having a tray for receiving said text pages printed by said second text page printer for accumulating said text pages to form a second book block for said second book;	The '721 patent discloses that each of the printers is provided with a bed or tray 26a, 26b that receives the text pages printed by the printers 24a, 24b for forming book blocks.
said cover printer printing a cover corresponding to said second book;	As shown in Figs. 1 and 2 of the '721 patent, the apparatus of the '721 patent has a cover printer 40 for printing covers for the books to be printed.
said cover transfer conveyor conveying said second cover to said binding station after binding of said first book is completed at said binding station; and	As shown in Fig. 3, the cover printed by cover printer 40 is conveyed to the binding station 38.
said carriage being movable to a position along said workpath for receiving said second book block from said second accumulator and said carriage thence being movable along said workpath to said adhesive application station.	In order to bind and trim a second book, the carriage 30 of the '721 patent is movable along the track 32 (the workpath) to receive the book block from the tray (accumulator) 26b of the second printer 24b, and to move the book block to the adhesive application station which is part of binding station

	38, as shown in Fig.3 of the '721 patent.
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Because the requirements of Claim 26 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 26.

Claim 27 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 27 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
27. Apparatus as set forth in Claim 26 further comprising a trimming station, the latter having a trimming blade for trimming said book to a predetermined finished size.	As shown in Figs. 1 and 2, the apparatus disclosed in the '721 patent has a trimming station 72 operable to trim the excess margins of the bound book to a predetermined finished size. As disclosed at Col. 12, lls. 25 et seq., the trimming station 72 has "a fixed knife which via a guillotine method, cuts off the excess edge of the book."

Thus, claim 27 is fully disclosed in the '458 patent (which incorporated the disclosure of the '721 patent by reference) such that the neither the prior public use of the apparatus disclosed in the '458 patent nor the published PCT application constitute prior art with respect to claim 27.

**Claim 28 was previously canceled.**

Claim 29 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 29 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
29. Apparatus as set forth in Claim 26 wherein said carriage conveys said book block with said cover bound thereto from said binding station to said trimming station.	As shown in Figs. 1 and 2, the track 32 for carriage extends from the binding station 38 to the trimming station 72 so that the carriage 30 may convey the bound book from the binding station to the trimming station.

Again, the because the requirements of Claim 29 have full antecedent support in the specification of the '458 application (which incorporates the disclosure of the '721 patent), and because the '458 patent was filed before the prior public use of the apparatus disclosed in the '458 patent and before the publication of the PCT application, the prior public use and the published PCT application WO/99/38707 are prior art with respect to claim 29.

Claim 30 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 30 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
30. Apparatus as set forth in Claim 29 further comprising  a computer control system processing information relating to each of said books to be printed and bound including the size of the book, the number of pages in the book, and the excess margins if any, of the bound	As shown in Fig. 11, computer control COMP processes information relating to the books to be printed and controls the various components of the printing, binding and trimming stations of the apparatus so as to print, bind and trim the books desired to be printed. This information includes book images that are sent to printers 24a, 24b and to

<p>book that must be trimmed to form a book of said predetermined finished size,</p> <p>said computer control system effecting operation of said first text page printer and of said cover printer to print the text pages and the cover of said first book to be printed on demand, effecting operation of said first receiving means so as to transfer the text pages constituting said first book block for said first book to said carriage, effecting the transfer of the cover for such first book to the binding station, and said computer control system effecting movement of the carriage to said adhesive application, binding, and trimming stations.</p>	<p>cover printer 40.</p> <p>As disclosed at Col. 6, ll. 15 et seq., computer control COMP sends information corresponding to the book to be printed to the printers 24a, 24b, to the cover printer 40.</p> <p>As disclosed at Col. 7, beginning at ll. 31, information regarding the trim margins and the thickness of the book is known to computer control COMP. As disclosed at Col. 8, ll. 31 the computer sends information corresponding to the number of pages (and the thickness of the corresponding book block 14 for the book being printed) to cover printer 40."</p>
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Again, because the requirements of Claim 30 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 30.

Claim 31 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

<p>Terms of Claim 31 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005</p>	<p>Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998</p>
<p>31. Apparatus as set forth in Claim 30 wherein said computer control system effecting the printing of the text pages of a second book on said second text page printer while said first book is being printed and bound, said computer control system further effecting said cover printer to print a</p>	<p>As shown in Fig. 11, computer control system COMP also controls operation of the second text page printer 24b.</p>

second cover for said second book after the cover for the first book has been transferred to said binding station, and said computer control system further effecting the transfer of said second book block from said second receiving means to said carriage after the first book has been transferred to said trimming station.	
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Again, the subject matter of claim 31 of the instant application is fully disclosed in the '721 patent, which is incorporated by reference in the '458 patent, such that neither the prior public use nor the published PCT application are not prior art with respect to claim 31.

Claim 32 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 32 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
32. Apparatus as set forth in Claim 31 wherein after the book block for said second book has been transferred to said carriage, said computer control system effecting movement of said carriage to said adhesive application station for applying adhesive so as to be disposed between said spine of said second book block and its respective cover upon binding, said computer control system further effecting movement of said carriage to said binding station for binding of the cover for said second book to said second book block, and said computer control system further effecting movement of said carriage to said trimming station for trimming of said second book to	As shown in Fig. 11, and as disclosed at Col. 12, ll. 29 et seq., "computer controls operation of the on demand book publishing system 12 and control operation of the binding system 12 of the present invention.", which includes controlling operation of the carriage along track 32.

said predetermined finished dimensions.	
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Again, the subject matter of claim 32 of the instant application is fully disclosed in the '721 patent, which is incorporated by reference in the '458 patent, such that neither the prior public use nor the published PCT application are not prior art with respect to claim 32.

Claim 33 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 33 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
33. Apparatus as set forth in Claim 32 wherein said first and second books may be of different sizes and thickness.	As disclosed at Col. 11, ll. 34 et seq., "Upon a book being selected, the computer retrieves data regarding the selected book from a computer storage repository in the manner described in the above-noted U.S. Pat. No. 5,465,213 which is herein incorporated by reference." Of course, since there are a large number of books stored in this computer storage repository, the books are of different sizes and thicknesses.

Again, because the subject matter of claim 33 is fully disclosed in the '458 patent (which incorporates the disclosure of the '721 patent by reference) such that neither the prior public use, nor the published PCT application are prior art with respect to claim 33 of the instant application.

Claim 34 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 34 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
34. A method of on demand manufacturing a plurality of perfect bound books wherein each book to be manufactured may be, within a limited range, of the same or of a different size and may have, within a limited range, the same or a different number of pages, each book comprising a plurality of text pages constituting a book block and a cover wrapped around the front, back and one edge of said book block, said one edge constituting a spine, said method comprising the steps of:	The basic apparatus, as described in the preamble, is fully disclosed in the '721 patent, see Figs. 1, 2, and 11.  As disclosed in the '721 patent, any one of a large number of books stored in a computer repository may be printed. Of course, these books may be the same size or of a different size.  As shown in Figs. 4 and 5, the books have a plurality of text pages and a cover wrapped around the front, back and one edge (the spine) of the book.
commanding a first text page printer to print the text pages constituting a first book block for a first book to be printed;	As shown in Figs. 11, computer control COMP commands that the text page printers 24a, 24b print the text of a first book.
accumulating said text pages to form said first book block for said first book;	As shown in Fig. 5, the text pages are accumulated on tray 26a to form a book block for a first book.
moving said first book block along a workpath, the later having an adhesive application station, a binding station, and a trimming station therealong;	The apparatus of the '721 patent includes a carriage 30 which is movable along track 32 to an adhesive application station 42, to a binding station 38, and to a trimming station 72.
printing a cover for said first book;	Cover printer 40 prints a cover for the book.
conveying said cover for said first book to said binding station and positioning said cover at said binding station for being bound to said spine of said first book block;	As shown in Fig. 3, the cover is conveyed from the cover printer 40 to the binding stations 38 so as to be bound to the spine of the book block 14.
at said adhesive application station, applying an adhesive so as to be disposed between said spine of said first book block and its respective cover upon binding of the book;	As shown in Figs. 8 – 10, adhesive A is applied so as to be disposed between the spine S and the respective cover C. This is also described in claim 21 of the '721 patent.
moving said first book block to said binding station and stopping said	As shown in Figs. 8 – 10, the book block carried by the carriage 30 is



first book block at said binding station with the spine of said first book block substantially in register with said first cover;	stopped at the binding station 38 so as to be substantially in register with its cover.
at said binding station, clamping said first cover to said first book block proximate said spine so as to adhesively bind said first cover to said first book block thereby forming a bound first book;	As shown in Figs. 8 – 10, clamp rolls 60a, 60b compress the book cover C onto its respective book block 14 proximate the spine S so as to adhesively bind the cover to the book block.
moving said bound first book from said binding station to said trimming station and transferring said bound first book to said trimming station; and	As shown in Figs. 1 and 2, the track 28 extends from the binding station 38 to the trimming station 72. Of course, in order for the first book to be trimmed, it must be transferred from the carriage to the trimmer.
trimming any excess margins from said bound first book thereby to form a first book of a predetermined finished size.	The trimming station 72 operates to trim excess margins from the bound book thereby to form a book of predetermined finished size.

As noted above, because the '458 patent (which incorporates by reference the disclosure of the '721 patent) discloses all elements of the method of claim 34 of the instant application, neither the prior public use of the apparatus disclosed in the '458 patent, nor the published PCT application are prior art with respect to claim 34.

Claim 35 of U. S. Patent Application No. 10/020,266, As Amended In  
Amendment A, Mailed February 14, 2005

Terms of Claim 35 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
35. The method of Claim 34 further comprising the steps of:	As shown above, the method of claim 34 is fully disclosed in the '721 patent.
commanding a second printer to print the text pages constituting a book block for a second book;	As shown in Fig. 11, the computer control COMP controls operation of both printers 24a, 24b and thus the

	second printer 24b may be commanded to print the book block for a second book.
accumulating said text pages to form said second book block;	As shown in Fig. 5, the text pages for the second book are accumulated on the bed 26b for the second printer 24b.
moving said second book block from said second printer along said workpath to said adhesive application station and thence to said binding station;	As shown in Fig. 5, the second book block is moved from the accumulator 26b to the carriage 30 and the carriage is moved along tracks 32 to the adhesive applications station and the binding station, as shown in Figs. 1 – 3.
printing a cover for said second book;	The cover printer 40 may be operated to print a cover for the second book.
positioning said second cover so as to be bound to said spine of said second book block;	As shown in Figs. 3 and 8 – 10, the second cover is positioned so as to be bound to the second book block.
clamping said second cover to said second book block proximate said spine so as to adhesively bind said second cover to said book block thereby forming a bound second book;	The pressing rollers 60a, 60b clamp the cover to the book block proximate the spine so as to adhesively bind the cover to the book block proximate the spine.
moving said bound second book from said binding station to said trimming station and transferring said bound second book to said trimming station; and	As shown in Figs. 1 and 2, the track 32 extends from the binding station to the trimming station 72 and the bound book is transferred to the trimming station so that the excess margins can be trimmed.
trimming any excess margins from said bound second book thereby to form a second book of a predetermined finished size.	The trimming station operates to trim excess margins and to form a second book of predetermined size.

Because the requirements of Claim 35 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 35.

Claim 36 of U. S. Patent Application No. 10/020,266, As Amended In  
Amendment A, Mailed February 14, 2005

Terms of Claim 36 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
36. A method of printing a book block having a plurality of text pages comprising the steps of:	As shown above, the method described by the preamble of claim 36 is disclosed in the '721 patent.
a. printing said text pages on a printer;	As shown in Figs. 1 and 2, as the text pages for a book are printed on printer 24a.
b. discharging said pages from said printer;	As shown in Fig. 5, as the pages from printer 24a are discharged onto a tray 26a.
c. accumulating said pages as they are discharged from said printer so as to form a book block on a tray in a page receiving position; and	As further shown in Fig. 5, the pages discharged from printer 24a are accumulated on tray 26a so as to form a book block 14
d. upon the completion of a predetermined number of pages, effecting the transfer of said book block to a carriage.	As shown in Fig. 5, the book block is transferred to a carriage 30.

Because the requirements of Claim 36 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 36.

Claim 37 of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005

Terms of Claim 37 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
37. The method of Claim 36 wherein said pages are accumulated on a tray	As shown above, the method of claim 36 is fully disclosed in the '721 patent.

as they are discharged from said printer,	
said method further comprising a step of holding said pages relative to said tray as the latter is moved from a receiving position in which it receives said pages from said printer so as to form said book block to a discharge position, and then releasing said book block so as to be discharged by gravity into said carriage.	The '721 patent does not disclose holding the pages of the book block on tray 26a and then releasing the book block from the tray so as to be discharged by gravity into the carriage.

As noted, the '721 patent (and thus the published PCT application) does not disclose holding the pages of the book block on tray 26a and then releasing the book block from the tray so as to be discharged by gravity into the carriage. However, because claim 37 is dependent upon claim 36, it is submitted that claim 37 is properly allowable along with claim 36.

Claim 38 of U. S. Patent Application No. 10/020,266, As Amended In  
Amendment A, Mailed February 14, 2005

Terms of Claim 38 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
38. The method of Claim 36 further comprising a step of jogging said pages as they are supported on said tray thereby to substantially align said pages comprising said book block relative to one another.	As shown in Fig. 11, the pages may be jogged into alignment with one another.

Again, because the subject matter of claim 38 of the instant application is fully disclosed in the '721 which is incorporated by reference in the '421 patent,

neither the prior public use of the apparatus disclosed in the '458 patent nor the published PCT application are prior art with respect to claim 38.

Claim 39 of U. S. Patent Application No. 10/020,266, As Amended In  
Amendment A, Mailed February 14, 2005

Terms of Claim 39 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
39. The method of Claim 38 further employing a cover printer for printing a cover for the book to be bound, said cover having a center portion, said method further comprising the additional steps of;	As shown above, the method of claim 38 is fully disclosed in the '721 patent. As shown in Fig. 7, the cover C has a center portion 18.
printing a cover on said cover printer corresponding to the book to be bound; and	The cover printer 40 prints a cover corresponding to the book to be bound.
positioning said cover relative to the book block at a binding station such that upon binding of said cover with said book block, the spine of said book block is adhered to the center portion of said cover.	As shown in Figs. 5 and 8 - 10, cover C is positioned relative to book block 14 such that the spine S of the book block is adhered to the center portion of the cover.

Again, because the requirements of Claim 39 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 39.

Claim 40 of U. S. Patent Application No. 10/020,266, As Amended In  
Amendment A, Mailed February 14, 2005

Terms of Claim 40 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998

<p>40. A method of manufacturing a plurality of perfect bound books wherein each book manufactured may, within a limited range, be of a different size and have a different number of pages, each book comprising a plurality of text pages constituting a book block and a cover wrapped around the front, back and one edge of said book block, said one edge constituting a spine, said method comprising the steps of:</p>	<p>As shown above, the '721 patent discloses a method of manufacturing perfect bound. Books (see the first sentence of the Abstract of the '721 patent).</p> <p>As disclosed in the '721 patent, a number of books may be stored in the computer repository and these books may have a different number of pages and may be of different sizes.</p> <p>As shown in Fig. 4, the book block has a plurality of text pages and one edge constitutes spine S.</p> <p>As shown in Figs. 8 – 10, a cover C is wrapped around the spine and around the front and back of the book</p>
<p>commanding the printing of text pages constituting a book block for a first book to be printed;</p>	<p>As shown in Fig. 11, the computer control COMP controls operation of both printers 24a, 24b and thus may command the second printer 24b to print the book block for a second book.</p>
<p>transferring said book block for said first book to a carriage;</p>	<p>As shown in Fig. 5, the text pages for the second book are accumulated on the bed 26a from printer 24a and are transferred to carriage 30.</p>
<p>moving said carriage along a workpath, the later having an adhesive application station, a binding station, and a trimming station therealong;</p>	<p>As shown in Figs. 1 and 2, the carriage 30 is movable along a track 32 and the track has an adhesive station.</p>
<p>at said adhesive application station, applying an adhesive to said spine of said book block;</p>	<p>As shown in Figs. 8 - 10, an adhesive A is applied so as to be disposed between the cover and the spine of the book.</p>
<p>printing a cover for said first book;</p>	<p>As shown in Fig. 3, cover C is printed by cover printer 40.</p>
<p>conveying said cover for said first book to said binding station and positioning said cover at said binding station so as to be substantially in register with said spine of said first book block when the latter is positioned at said binding</p>	<p>This step is shown by Figs. 8 – 10.</p>

station;	
moving said carriage to said binding station and stopping said carriage at said binding station with the spine of said book block for said first book substantially centered with respect to said cover;	This step is shown in Figs. 8 – 10.
clamping said cover to said book block for said first book proximate said spine so as to adhesively bind said cover to said book block thereby forming a bound first book;	The clamping step is shown in Figs. 8 – 10 of the '721 patent.
moving said bound first book from said binding station to said trimming station and transferring said first bound book to said trimming station;	As shown in Figs. 1 and 2, the tracks 28 (workpath) extends from the binding station 38 to the trimming station 72 and, in order to effect trimming, the book is transferred from the carriage to the trimming station.
effecting operation of said trimming station so as to trim any excess margins from said first bound book thereby to form a first book of a predetermined finished size.	As shown in Fig. 11, computer control COMP effects trimming of the excess margins of the bound book.

Because the requirements of Claim 40 have full antecedent support in the specification of the '458 application (which incorporates the disclosure of the '721 patent), and because the '458 patent was filed before the prior public use of the apparatus of the '458 patent and before the publication of the PCT application, neither this prior public use nor the published PCT application WO/99/38707 are prior art with respect to claim 40.

Claim 41 of U. S. Patent Application No. 10/020,266, As Amended In  
Amendment A, Mailed February 14, 2005

Terms of Claim 41 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
41. The method of Claim 40 further comprising the steps of:	As shown above, the method of claim 40 is fully disclosed in the '721 patent.
commanding the printing of text pages constituting a book block for a second book to be printed where the size and the number of pages of said second book may vary from said first book;	As shown in Fig. 11, the computer control COMP controls operation of both printers 24a, 24b and thus may command the second printer 24b to print the book block for a second book.
moving said carriage along said workpath to a position for receiving said book block for said second book;	As shown in Figs. 1 and 2, carriage 30 are movable along tracks 32 (a workpath) to be in position to receive a book block from the second text page printer 24b.
transferring said book block for said second book to said carriage;	As shown in Fig. 5, the second book block is moved from the accumulator 26b to the carriage 30.
moving said carriage with said book block for said second book along said workpath to said adhesive application for having adhesive applied to the spine of said book block;	As shown in Figs. 1 and 2, the carriage is movable along the track to the binding station where adhesive is applied so as to be disposed between the spine and the cover.
printing a cover for said second book;	As shown in Figs. 3 and 8 – 10, the second cover is positioned so as to be bound to the second book block.
conveying said cover for said second book to said binding station and positioning said cover for said second book so as to be substantially in register with said spine of said book block for said second book when the latter is positioned at said binding	As shown in Fig. 3, the cover for the second book is conveyed to the binding station 38, where the center of the cover is substantially in register with the spine of the book block of the second book.



station;	
moving said carriage to said binding station and stopping said carriage at said binding station with the spine of said book block for said second book substantially centered with respect to said cover for said second book;	As shown in Figs. 1 and 2, the track 32 extends to the binding station where the spine of the book block is substantially centered with respect to the cover.
clamping said cover to said book block for said second book proximate said spine so as to adhesively bind said cover to said book block thereby forming a second bound book;	As shown in Figs. 8 – 10, the cover is clamped to the book block proximate the spine by rollers 60a, 50b.
moving said second bound book from said binding station to said trimming station and transferring said second bound book to said trimming station; and	As shown in Figs. 1, 2 and 11, after the book block and the cover are bound together, the track extends to the trimming station 72 for trimming the book to predetermined dimensions.
effecting operation of said trimming station so as to trim any excess margins from said second bound book thereby to form a second book of a predetermined finished size.	See above.

Again, because the requirements of Claim 41 have full antecedent support in the specification of the '458 application which was filed before the publication of the PCT application, neither the prior public use, nor the published PCT application WO/99/38707 are prior art with respect to claim 41.

Claim 42 of U. S. Patent Application No. 10/020,266, As Amended In  
 Amendment A, Mailed February 14, 2005

Terms of Claim 42 Of U. S. Patent Application No. 10/020,266, As Amended In Amendment A, Mailed February 14, 2005	Antecedent Support Described In Marsh, U. S. Patent 6,193,458, Filed April 29, 1999, Which Incorporates By Reference Marsh, U. S. Patent 6,142,721, Filed January 30, 1998
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<p>42. Apparatus for the printing and binding a perfect bound book, the latter comprising a book block having of a plurality of text pages with one edge of said book block constituting a spine, said book having a cover adhesively secured to said spine,</p>	<p>As shown above, the apparatus of the '721 patent prints and binds perfect bound books.</p> <p>As shown in Fig. 4, the perfect bound book has a book block 14 having a plurality of pages.</p> <p>As shown in Figs. 8 – 10, the book has a cover C that is adhesively secured to the spine S of the book block.</p>
<p>said apparatus comprising a text page printer, a cover printer,</p>	<p>As shown in Fig. 1, the apparatus has text page printers 24a, 24b, and a cover printer 40.</p>
<p>a cover transfer conveyor for receiving said cover printed by said cover printer and for conveying said cover to a binding station,</p>	<p>As shown in Fig. 3, the cover C is conveyed from the printer 40 to a binding station 38.</p>
<p>a carriage movable along a workpath from a first station at which said carriage is in position to receive said text pages constituting said book block to an adhesive application station at which an adhesive is applied to the spine of said book block, and to said binding station,</p>	<p>As shown in Figs. 1, 3 and 5, a carriage 30 is movable along a track 32 (a workpath) from a first station proximate the text page printers 24a, 24b where it is in position to receive a book block 14 from the printers (see Fig. 5). The carriage with the book block is movable along the track to binding station where the adhesive is applied so as to be disposed between the spine of the book block and the cover C.</p>
<p>the later having a clamp for clamping said cover to said book block proximate said spine so as to effect the adhesive binding of said cover to said book block so as to form a bound book,</p>	<p>The binding station has compressible rollers 60a, 60b which compress the cover onto the book block proximate the spine S so as to effect the adhesive binding of the cover to the book block.</p>
<p>and a trimming station receiving said bound book from said binding station and trimming said bound book to predetermined dimensions.</p>	<p>As shown in Figs. 1 and 2, the track 32 extends from the binding station to the trimming station 72 and the bound book is transferred to the trimming station so that the excess margins can be trimmed. The trimming station operates to trim excess margins and to for a second book of predetermined size.</p>

Again, the subject matter of claim 42 of the instant application is fully disclosed in the '458 such that neither the prior public use, nor the published PCT application, are prior art with respect to claim 42.

Claim 43 of U. S. Patent Application No. 10/020,266, As Amended In  
Amendment A, Mailed February 14, 2005

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43. Apparatus as set forth in Claim 1 further comprising	As shown above, the apparatus of claim 1 is fully disclosed in the '721 patent.
a second text page printer for printing the text pages of a second book, said second text page printer being located along said workpath at a location separate from said first text page printer,	As shown in Figs. 1 and 2, and Fig. 11, the apparatus has two text page printers 24a, 24b that are located along the workpath at separate locations from one another.
an accumulator receiving said text pages printed by said second text page printer and forming a book block for said second book,	As shown in Fig. 5, the text pages for the second book are accumulated on the bed 26b for the second printer 24b.
said cover printer printing a cover corresponding to said second book and said cover conveyor conveying said second cover to said binding station after binding of said first book is completed at said binding station,	Cover printer 40 may be operated to print a cover for the second book. As shown in Fig. 3, the cover for the second book is conveyed from the cover printer 40 to the binding station 38.
said carriage being movable to a position along said workpath for receiving said book block for said second book and thence being movable along said workpath to said adhesive application station for having said adhesive applied to said spine of said second book block and thence to said binding station for being bound to said second cover.	As shown in Figs. 1 and 2, the track 32 extends from the printers 24a, 24b where the carriage receives a book block and transports it to the binding station where adhesive is applied so as to be disposed between the cover and the book block spine S so that a cover may be bound to the book block of a second book.